

BELITSER, V.A.; KOTYL'NIKOVA, A.V.; LYUBIMOVA, M.N.; SEVERIN, S.Ye.;
STEPANENKO, B.N.; ~~ENGEL'GARDT, V.A.~~

Second International Conference on Lipids and the Third Inter-
national Biochemical Congress. Vop.med.khim. 2 no.1:73-79 Ja-P '56.
(GHENT--LIPIDS--CONGRESSES) (MIRA 9:9)
(BRUSSELS--BIOCHEMISTRY--CONGRESSES)

ENGEL'GARDT, Vladimir A.

"Enzymes as Structural Elements of Physiological "mechanisms,"
"Enzymology and Mechanochemistry of Tissues and Cells,"

paper presented at the Intl. Symposium on Enzyme Chemistry, 15-23 Oct 57,
Tokyo and Kyotō, Japan.

Inst. Biochem. Acad. Sci. USSR

B-3,098,405
B,3,095,529

Engelgardt V.A.
BAYEV, A.A. [translator]; BARKHASH, A.P. [translator]; BEKINA, R.M.
[translator]; VENKSTERN, T.V. [translator]; LISOVSKAYA, N.P.
[translator]; ODINTSOVA, M.S. [translator]; PINUS, Ye.A.,
[translator]; TATARSKAYA, R.I. [translator]; ~~ENGEL'GARDT~~, V.A.,
akademik, red.; PARNES, Ya., red.; SOKOLOVA, T., tekhn.red.

[Present-day problems in biochemistry; a collection of articles.
Translations] Sovremennye problemy biokhimii; sbornik statei.
S predisl. V.A.Engel'gardta. Moskva, Izd-vo inostr. lit-ry, 1957.
480 p. (MIRA 11:5)

(BIOCHEMISTRY)

USSR / General Biology. Physical and Chemical Biology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14253

Author : Engel'gardt, V. A.

Inst : Academy of Sciences USSR

Title : The Chemical Principles of Efferent Functions
of Cells and Tissues

Orig Pub : Vestn. AN SSSR, 1957, No 11, 58-68

Abstract : The progress of the chemical mechanism of contraction, especially the problem of enzymatic factors of efferent function, are examined. After the author and I. N. Lyubimova discovered the adenosintriphosphatase activity of myosin (M), it was shown that ATP [adenosine triphosphate] acts upon M affecting a change in the elastic properties of its tissues and a decrease in the viscosity of M solutions.

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Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14253

This fact initiated the standpoint which regards contraction to be a reaction of a highly molecular structural base of a muscle with low molecular metabolism products forming an enzyme substrate complex. In the course of studying this interaction, a second protein of the retractile substance, actin, was discovered which forms a complex with M, each component of which is incapable of contracting separately. At present it has been proven that ATP-ase activity is expressly inherent in M and does not depend upon the admixture of a special enzyme. A leading part in the process of contraction is played by the interaction of M and ATP but not by M and

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USSR / General Biology. Physical and Chemical Biology. 3

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14253

actin. Actine may even be substituted by nucleic acid whereby "nucleomyosin" is contracted by the action of ATP. It was established that the presence of Ca ions is requisite for the interaction of K and ATP. The study of various non-muscular cells capable of contraction and shrinkage permits to assume that in these cells, as in muscle, an interaction of the myosin-like protein, possessing a ATP-ase activity, and of ATP takes place. This process is apparently as universal as the processes of respiration and fermentation. Thus, a protein, related to M, with a ATP-ase activity which contracts through the action of ATP (models covered with glycerine) was detected in the cauda of

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USSR / General Biology. Physical and Chemical Biology. B

Abs Jour : Ref Zhur - Biologiya, No 4, 1959, No. 14253

sperms. Also, the models of dividing cells which have the ability to contract are distinguished by a high ATP-ase activity. --
P. P. Rumyantsev

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2

ENGEL'GARDT, V.A.; KANOPKAYTE, S.I.

Coenzymatic activity of various forms of thiamine pyrophosphate in systems of simple and oxidative decarboxylation [with summary in English]. Biokhimiia 22 no.1/2:21-28 Ja-J '57. (MIRA 10:?)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.
(COENZYMES,
thiamine pyrophate in systems of simple & oxidative
decarboxylation (Rus))

Engelhardt, V.A.

ENGELGAHDT, V.A.; BURNASHEVA, S.A.

Localization of the protein spermocine in sperm cells [with summary
in English]. Biokhimiia 22 no.3:554-560 My-Je '57. (MIRA 10:11)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.
(PROTEINS, determination
spermocine in sperm cells (Rus))
(SPERMATOZOA.
determ. of protein spermocine in sperm cells (Rus))

ENGEL'GARDT, V.A.

VENKSTERN, T.V.; ENGEL'GARDT, V.A.

Occurrence of ectoadenosinepolyphosphatase and some of its properties
[with summary in German]. Biokhimiia 22 no.5:911-916 S-0 '57.
(MIRA 11:1)

1. Institut biokhimii im. A.N.Bakha Akademii nauk SSSR, Moskva.
(PHOSPHATASES,
ecto-adenosinepolyphosphatase distribution & properties
(Rus))

ENGELGARDT, V.A.

UNCLASSIFIED

PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON ENERGY CHEMISTRY, Tokyo & Kyoto, 1957
Organizing Committee, International Symposium on Energy Chemistry, Tokyo,
Nakatsu, 1958

Enzymes as Structural Elements of Physiological Mechanisms

W. A. ENGELGARDT

Academy of Sciences, Academy of Sciences of the U.S.S.R., Moscow, U.S.S.R.

There are hardly any physiological functions in which enzymatic processes are not involved. However, not all these functions are purely chemical. Chemical work in these functions is mainly mechanical work, i.e. mechanical work of chemical energy. In these functions, chemical energy is transformed into mechanical energy, i.e. chemical energy changes electric charges and moves liquids in the act of motion. The energy of mechanical vibrations eventually disappears, unless transformations in the ordinary organs, chemical work in some or stationary organs, or the expansion of the energy thermal in chemical reactions. Actually these transformations of energy represent the creation of the above-named elementary physical functions.

In the chemical link, there are also transformations of energy, which are represented by chemical reactions taking place in the chemical link. There are also transformations of energy, which are represented by those various organs considered here. The transformations of energy, which are observed in the course of organic metabolism, are mainly of chemical character. The energy of chemical reactions is transformed into mechanical energy, i.e. mechanical work of physical processes such as the intake and release of heat, and of biological mobility. The processes in a living organism are a sort of biological mobility, i.e. movement of living organisms, or movement of living organisms, or movement of heat, and a combination process, a combination of heat, and a combination of a certain part of a certain system of a biological system.

Biological mobility, which can be designated as a functional complex. The factors, responsible for the chemical phase of the complex, may also be regarded as part of the complex, i.e. chemically untransformed state of structures.

The place which I wish to put forward here is that enzymes play the role of these untransformed parts of biological functional mechanisms. They serve here as catalysts by which chemical and physical processes are connected and which are connected with the mechanical processes of the body.

If the enzymes are considered in the mechanics of the body, we can see that they are not the main source of cellular mechanisms, which accomplish the body's operational, composite and important organic functions.

I have no pretensions to originality in concerning these facts. A special symposium has been held at the Henry Ford Hospital in 1955, on "Enzymes in units of biological structure and function". The proceedings of this symposium represent a volume of considerable size. The approach is of such great importance that it is difficult to describe without giving a detailed account of the contents of the symposium.

It is the second group of biological functions, which will be called "purely chemical", that I wish to discuss.

To the first, the "purely chemical", group of biological functions, belong the processes of absorption,

digestion, assimilation, excretion, etc., which are carried out in the body or organs, of which the greatest part is a

chemical reaction. These processes are called "metabolic".

That is why the first group of biological functions is called "metabolic".

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PROCEEDINGS OF THE INTERNATIONAL SYMPOSIUM ON ELECTRO CHEMISTRY, October 8 Kyoto, 1971
Organized Committee, International Symposium on Electro Chemistry, Nagoya,
Nagoya, 1972.

W. A. BROWN

Enzymology and Mechanochemistry of Tissues and Cells

W. A. DENTONALST

were among the first to enter the field. Of course, the first to do so were the English.

EN

ENGEL GARDE, VA.

PLAN I BOOK EXPLOITATION

Sov/5494

Vasil'ev, Mikhail Vasil'yevich, and Sergey Zakharovitch Gushchikov
 Reportach is XXI veka; my kapitali raszchetz dvadtsati devyat'i
 sovetskikh uchenykh o nauchno i tekhnike budushchego Sovetskogo
 soveticheskogo vekta [Century of Twenty-First Century: Stories of Twenty-Fifth
 Scientists on Science and Engineering of the Future] (Moscow)
 From the Twenty-First Century: Stories of the Future)
 Scientists on Science and Engineering
 Scientists on Science and Engineering
 Sovetskaya Rossiya, 1958. 243 p. 50,000 copies printed.
 Izd-vo Sovetskaya Rossiya.

Ed.: V. A. Golubkova; Tech. Ed.: G. I. Kleyeva.

PURPOSE : This book is intended for the general reader.

COVERAGE: The book contains 27 articles (told reporters by Soviet scientists) dealing with probable future problems in physics, chemistry, electricity, metallurgy, engineering, mining, medicine, biology, agriculture, zoology, transport, exploration of space, and photography. Attention is given to automation, underground gasification of coal, use of atomic energy, atomic electric stations, explosives, production of metal parts by the process of explosion, card-277

Reports From the Twenty-First (Cont.)

Sov/5494

In dam construction, cancer, internal longevity reserves, diseases of illnesses, surgery vs. treatment by alternative medicine, mechanical heart substitutes, human body banks, sonic vibrations, mechanical engineering, enriched fodder, superartillery, artillerist, agriculture, radiochemistry, floral novelties, architecture vs. machine doing intellectual work, "sp" auto-power beam, micro-machines doing artificial sun (electronics), mobiles (with radio control), which cause heated molecules static rays, focused above a city, which cause lightning discharges, rainbow to shade, future ocean ships, railway derailements and derailleurs, auto- or the future, moving pavements, wheeled cameras, the industrialization of Siberia, mobiles, electric cameras, the industrialization of Siberia, use of underground heat, climate control, living on the moon, antimatter, and photon jet. Names of the interviewed scientists are given. There are no references.

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Learn to Dream [A. N. Kosyaginov, Academician]

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2

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 Miles Are Breathing Their Last [I. S. Gerashko, Director of Vsesoyuznyi nauchno-issledovatel'skiy in-t "Sodimetika" — All-Union Scientific Research Institute of Underground Gasification of Coal — and N. A. Fedorov, Deputy Director for the Scientific Section]
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ENGELGARDT V. A.

ENGELHARDT, V. A., BAYEV, A. and VENKSTERN, T. Moscow UdSSR

"Nucleotidstoffwechsel in Vogelerythrozyten,"

report submitted IV Intl. COng. of Biochemistry, VIenna, 1-6 Sep 1958.

ORBELI, L.A., akademik, PAVLOVSKIY, Ye.N., akademik, ENGEL'GARDE, V.A.,
akademik, BARANOV, P.A., CHERNIGOVSKIY, V.M., GENITSINSKIY, A.G.
FRANK, G.M.

Dmitrii Nikolaevich Nasonov; obituary. Biofizika 3 no.3:257-258
'58 (MIRA 11:6)

1. Chlen-korrespondent AN SSSR (for Baranov, Chernigovskiy)
2. Chlen-korrespondent AMN SSSR (for Genitsinskiy, Frank).
(NASONOV, DMITRII NIKOLAEVICH, 1895-1957)

ENGEL'GARDT, V. A.

AUTHOR: None Given 30-58-5-14/36

TITLE: In the Department of Biological Sciences (V otdelenii biologicheskikh nauk)

PERIODICAL: Vestnik Akademii Nauk SSSR, 1958, Nr 5, pp 60-62
(USSR)

ABSTRACT: The secretary V. A. Engel'gardt, Member, Academy of Sciences, USSR reported on the work of the department and its institutions in the year 1957. He emphasized a number of serious deficiencies of the biological institutions of the AS. Above all there are not enough rooms for new as well as for already existing institutes and laboratories. The Botanical, Zoological and Soil Institute urgently need experimental field bases. Working cycles on the electron-microscopic investigation of the functional structure of muscles were terminated as well as on the radiographic investigation of collagen and on the determination of the mechanisms of the biological influence of ultrasonics. The gradual theory of the propagating excitation by the deceased D. N. Nasonov was further developed. Treatises on the part played by inner-secretory glands in the development of organisms and on the resistance to cold of insects were published. Further different researches are also mentioned which are performed at

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In the Department of Biological Sciences

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present. In 1957 the 24-th volume "Flora of the USSR", the 4-th volume "Flora of Spore Plants" and a chart of the vegetation of Central Asia and Southern Kazakhstan on a large scale were edited. The 13-th volume of the treatise "Trematodes of Animals and Man" was published. In the past year new biological institutions were established: the Institute for Cytology on the basis of the Laboratory of the same name, the northern branch of the Forestry Institute in Arkhangel'sk, the Kuybyshev Station of the Institute for Biology of Water Reservoirs and some new laboratories. In Moscow an international symposium on the formation of life was called. In a special information V. A. Engel'gardt outlined the plan of the development of biological sciences for the years 1959-1965. V. N. Sukachev, Member, Academy of Sciences, USSR reported on the work of biologists in 1957, where he pointed out the lack of specialists in the fields of cytology, biophysics, paleontology, botanics, zoology and some others. The following persons participated in the discussions:
1) G. Ya. Bey-Biyenko, Corresponding Member, Academy of Sciences, USSR spoke on tasks in connection with the establishment of the Siberian Branch.
2) B. N. Stepanenko, Doctor of Biological Sciences, emphasized

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the importance of an increase in contact of biology with chemistry.

3) G. K. Khrushchov, Corresponding Member, Academy of Sciences, USSR and a number of other speakers also spoke on the necessity of strengthening the contacts between biologists and physicists as well as chemists. He called it an essential disadvantage that the office of the department in its activity mainly restricted to scientific-organizational problems, which was supported by several other speakers.

4) A.A. Imshenetskiy, Corresponding Member, Academy of Sciences, USSR, advocated the opinion that the office of the department should take up everything new in science and that it should act as initiator in the posing of new principal scientific problems. He made the proposal to introduce prize competitions for the best works.

5) E. A. Asratyan, Corresponding Member, Academy of Sciences, USSR emphasized the one-sided development of physiology in the country and stated that neurophysiology is developed to a very limited extent.

6) N. M. Sisakyan, Corresponding Member, Academy of Sciences, USSR emphasized the necessity of creating connections between the scientific institutions of the department and the councils

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of national economics. In his closing speech V. A. Engel'gardt Member, Academy of Sciences, USSR agreed to the remarks made by the speakers of the discussion. The plenary assembly elected a new composition of the office. Beside the Secretary V.A. Engel'-gardt, Member, Academy of Sciences, USSR whose powers have not yet expired the following persons were elected: The Members, Academy of Sciences, USSR, A. L. Kursanov, Ye. N. Pavlovskiy, V. N. Sukachev, and I. V. Tyurin, as well as the Corresponding Members, Academy of Sciences, USSR E. A. Asratyan, P. A. Baranov, V. A. Kovda, Yu. A. Orlov, A. N. Svetovidov, S.Ye. Severin, G. K. Khrushchev, V. N. Chernigovskiy. The following lectures were heard: M. N. Meysel' on new directions in the fluorescence-microscopic investigation of cells, tissues and organs. B. P. Ushakov on the problem of the adaptation of the cells of cold-blooded animals to raised temperatures. M.N. Livanov on the investigation of higher nervous activity by the new electro-physiological method. M. A. Peshkov on the use of the perfected an-optral microscope in microbiology and protistology. I. S. Beritashvili, Member, Academy of Sciences, USSR showed a popular scientific film on the investigation of the part played by the cerebral cortex of the cerebrum and cerebellum in the spatial orientation of animals.

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YEL'TSINA, N.V., ENGEL'GARDT, V.A.

Pathways of carbohydrate introduction in plastic metabolism of cancer
cells [with summary in English] Biokhimiia 23 no.3:468-492 My-Je '58
(MIRA 11:8)

1. Institut eksperimental'noy terapii raka AMN SSSR, Moskva.
(CARBON metabolism,
cancer cell (Rus))
(NEOPLASMS, metabolism,
carbon (Rus))

VASIL'YEV, M.; GUSHCHEV, S.; NESMEYANOV, A.N., akademik; SHCHERBAKOV, D.I., akademik;
ENGEL'GARDT, V.A., akademik; ZHEZERAK, A.R., prof.; LEBEDEV, S.A.,
~~akademik~~, ZEMELEVICH, L.A.; GRADOV, A.S.; OLODOVSKIY, M.G., prof.;
STANYUKOVICH, K.P., prof.

Ahead with the dream! Znan.sila 33 no.12:24-25 D '58.
(MIRA 11:12)

1. Chlen-korrespondent AN SSSR (for Zendevich). 2. Direktor Nauchno-
issledovatel'skogo instituta proyektirovaniya obshchestvennykh zdaniy
i sooruzheniy (for Gradov).
(Science)

ENGEL'GARDT, Vladimir Aleksandrovich, akademik

[Some problems in modern biochemistry; report at the Eighth
Mendeleev Congress of General and Applied Chemistry] Nekotorye
problemy sovremennoi biokhimii; doklad na VIII Mendeleevskom
sezde po obshchei i prikladnoi khimii. Moskva, Izd-vo Akad.
nauk SSSR, 1959. 38 p. (MIRA 12:11)
(BIOCHEMISTRY)

S N G E L G A R D T U A

RGV/30-32-1-47/7

Chernakov, Yu. F., Candidate of Philosophical Sciences (Philosophical report on marriage perspectives).

20(9)

Address:
Soviet:
Philosophical:

ABSTRACTS:

At the end of October last year an all-USSR conference took place which dealt with those problems. The conference had been convened by the Academy of Sciences (Academy of Sciences) and the Ministry of Culture (Ministry of Culture). More than 600 well-known experts in the spheres of sciences and philosophy took part, among them Academician and Corresponding Member, Academy of Sciences, Prof. K. S. Chernakov, representatives of the Academies of the Union Republics and Branch Academies as well as scientists from scientific research institutes and universities. Soviet scientific representatives from Bulgaria, Romania, Hungary and Czechoslovakia were guests. It was the aim of the conference to unite the creative powers of Soviet philosophy and scientists for the purpose of a dialectic-materialistic generalisation of the achievements of modern science and for raising its level which is intended to contribute towards a solution of the most important scientific problems. In a short period of time the best were the ideas expressed by Academician A. N. Nesvizhevsky, President of the All Union and K. V. Ozerovitsky, Chairman of the Committee for the Organisation of the Conference on the occasion of their opening speeches.

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The following reports were heard and discussed: B. N. Miasnik, Academician spoke about Lenin's materialism and its development in the course of the great socialist revolution and transformation of the world; he dealt in his report with V. I. Lenin and the philosophical problems of modern physics.

S. I. Mikhlin, Doctor of Philosophical Sciences, Corresponding Member, Academy of Pedagogical Sciences USSR, reported on the correlations in nature of the forms of movement of matter. I. A. Shik spoke about the interpretation of quantum mechanics. A. N. Orlinskaya, Corresponding Member, Academy of Sciences, spoke about the philosophical sense and the importance of the theory of relativity.

S. I. Sobolev, Academician and A. A. Stepanov, Professor, dealt with substantiation and "material" solutions of the problem of concreteness. Academician spoke about some methodological problems of physics and chemistry in investigating biological problems.

I. S. Oparin, Academician spoke about the formation of life in the light of the achievements of modern natural science theory and modern physiology of the animal organs.

A. S. Izmailov, opposed the opinion expressed by M. L. Chailov

privately who said that in the capitalist countries a crisis in physics is approaching.

SOV/29-59-2-11/41

30(11)
AUTHOR:Engel'gardt, V., A. Academickan

TITLE:

Biology Will Enrich Exact Sciences and Technology (Biologiya
obogatit tochnyye nauki i tekhniku)

PERIODICAL:

Tekhnika molodezhi, 1959, Nr 2, p 12 (USCR)

ABSTRACT:

To the question asked by the editors of the periodical "Tekhnika - molodezhi" how he imagined future, V. Engel'gardt replied among other things: The Socialist order, the development of which we are experiencing, will ask more and more for new forms of control and utilization of natural forces. Thus, a great importance is given to the investigation of the living matter. Biology which at present makes good use of the achievements of allied sciences - chemistry, physics etc - will in its turn enrich the exact sciences, even technology. To explain my idea I will give two examples. In nature we have got a device admirable for its perfection which serves the conversion of energy. In the muscles the energy of chemical reactions is turned directly into mechanical work with such efficiency that any heat engines or turbines designed by man are greatly surpassed. We know already the chemical

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• Biology Will Enrich Exact Sciences and Technology

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processes taking place in the working muscle. Still unknown is the physical change of protein. The protein transforms the chemical energy to mechanical one. As soon as we know the physical character of these phenomena there is no doubt, we shall be able to give technology new principles of "chemodynamic" engines. The other example is found in the world of plants. At present we can only dream of the utilization of guided thermonuclear reactions. Meanwhile, the whole life on earth is based on the utilization of solar energy. We are able to utilize only about 10% of solar radiation by means of the most perfect photoelements. A vegetable cell containing chlorophyll, however, utilizes 100% of the solar energy absorbed. One can easily imagine what gigantic, practically inexhaustible, sources could be used for power economy if the photosynthesis could be realized not only in the leaf of a plant but in a technological process. There is 1 figure.

Card 2/2

AUTHOR: Engel'gardt, V. A., Academician SOV/30-59-2-12/60

TITLE: In Memory of an Outstanding Scientist (Pamyati zamechatel'nogo uchenogo)

PERIODICAL: Vestnik Akademii nauk SSSR, 1959, Nr 2, pp 60-61 (USSR)

ABSTRACT: This paper presents the speech held by the author on the occasion of the obsequies in the great conference hall of the Academy of Sciences in Leningrad on December 13, 1958 (see reference). The author describes Leon Abgarovich Orbeli's life and work, who was an outstanding physiologist and biologist and pupil of the famous Pavlov. Orbeli founded the Institut evolyutsionnoy fiziologii (Institute of Evolutionary Physiology). For ten years he held the office of a scientific secretary of the Department of Biological Sciences. There is 1 figure.

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KANOPKAYEE, S.; ENGEL'GARDT, V.A.

Some data from a study of the enzyme function of thiamine-pyrophosphate. Vitaminny no.4:5-9 '59. (MIRA 12:9)

1. Institut biokhimii Akademii nauk SSSR, Moskva.
(THIAMINE) (COCARBOXYLASE)

ENGELHARDT, W.A.

Enzymes as an integral component of physiological mechanisms.
Acta physiol.hung. 16:Suppl.:3-4 '59.

1. Biochemisches Institut der Wissenschaftlichen Akademie
der USSR, Moskau.
(ENZYMES)

ENGEL'GAJUT, V.A., akademik

Concerning "molecular" diseases. Zdrav.Belor. 5 no.8:3-6
Ag '59. (MIRA 12:10)

1. Institut radiatsionnoy i fiziko-khimicheskoy biologii Akademii
nauk SSSR.
(BLOOD--DISEASES)

ENGEL'GARDT, V.A.; BAYEV, A.A.; VENKSTERN, T.V.

Conversion of nucleotides in nuclear erythrocytes and its relation
to respiration [with summary in English]. Biokhimiia 24 no.1:157-170
Ja-F '59. (MIRA 12:4)

1. Institute of Biochemistry, Academy of Sciences of the U.S.S.R.,
Moscow.

(ERYTHROCYTES,
nucleotide conversion, eff. of resp. (Rus))
(NUCLEOSIDES AND NUCLEOTIDES, in blood,
erythrocytes, eff. of resp. on conversion (Rus))

5 (3), 17 (3)
AUTHOR:

Engel'gardt, V. A.

SOV/74-28-9-1/7

TITLE: Some Problems of Modern Biochemistry

PERIODICAL: Uspekhi khimii, 1959, Vol 28, Nr 9, pp 1011-1035 (USSR)

ABSTRACT: This is an attempt to highlight some problems of modern biochemistry in those fields to which the experts pay actually the highest attention, and which are decisive for the further development of biochemical sciences. The matter at issue are the albumins and the nucleic acids. The action of nucleic acids is generally known and sufficiently founded. This refers particularly to the deoxyribonucleic acid (DNA) which is to transmit the features of heredity from generation to generation. Any change of its structure causes changes in the progeny, which are scientifically called mutations. Thus the unchangeableness of DNA is the condition for a constancy of heredity. On the other hand, mutations are the basis of changeability and thus of evolution. It warrants a perfection of the organism by natural or artificial selection. Under these circumstances the chief problem of so-called "molecular biology" is to explain the mechanisms of mutation, to determine its chemical nature, and thus to find the way of how to control it. The problem of

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Some Problems of Modern Biochemistry

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the chemical origin of the mutations is inseparably connected with the problem of the synthesis of polynucleotide chains of the nucleic acids. In the last 5 years the greatest achievements in biochemistry are doubtlessly the results obtained in the field of the fermentative synthesis of polynucleotides. (Ref 9, 10). The most important problem to be solved in the investigation of the nucleic acids, will be the determination of their chemical structure. The scheme set up by Watson and Crick (Ref 2) roughly represents the structure. The next step will now be to establish the sequence of the nucleotide members in the gigantic chain of the nucleic acid. The problems mentioned directly lead to the problem concerning the mechanism of the synthesis of albumins. This synthesis is controlled by the ribonucleic acid (RNA), and takes place under its vigorous participation. Science has hitherto succeeded in dividing the process of synthesis of the albumin molecule into clearly distinguished stages (Ref 11). These steps are the following: 1) Activation of the amino acids. 2) The activated amino acids combine in an orderly manner. 3) A steric structure is built up. But only the first step is the object of clear chemical concepts. As to the two other steps which are of particular

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importance, since they determine the chemical nature of each individual albumin, they will be investigated in the future. Though determining the arrangement of the amino acids in the albumin molecule is still a difficult task the determination of the general amino-acid composition of any albumin has already become a routine work (Ref 13). To this day already a remarkable number of peptide-hormones have been investigated in regard to the arrangement of the amino acids in their structure. In some cases even a complete identification in this arrangement could be attained. Another group, not less important and far more comprehensive, are the ferments. The scientists succeeded not only to determine the composition and the sequence of amino acid traces in their peptide-chain, but also to find out the probable contours of the ferment configuration. Even some problems have been solved in regard to the connection between the structure and the enzymatic activity. It was found that the catalytical activity in the ferment molecule is not - as a rule - determined by the entire chemical structure and the molecular configuration. It seems that the catalytic activity is but concentrated in a limited, and clearly defined section of the molecule (similar observations were made already with peptide

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Some Problems of Modern Biochemistry

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hormones). This section is decisive for the biological properties of the albumin, and it is, therefore, designated as the nucleus or the "active center". Biochemistry, however, deals also with a number of diseases. Thus it is possible to determine the nature of these diseases based on the chemical structure of molecules or on the interaction of chemical substances and on the chemical reactions, caused by ferment. Functional biochemistry may be considered as the prevalent trend and the ultimate aim in the problems of biochemistry. In other words, it is the tendency of explaining by chemical methods the nature, the mechanism, and the essence of certain physiological functions. There are 6 figures, 1 table, and 24 references, 4 of which are Soviet.

ASSOCIATION: Institut radiatsionnoy i fiziko-khimicheskoy biologii AN SSSR
(Institute of Radiation- and Physico-chemical Biology AS USSR)

Card 4/4

ENC CARD 1A

REF ID: A644612
Soviet Givea
All-Union Conference on Philosophical Problems of Modern Natural Sciences (Teoriya sovremennoy prirody po filosofiiia rapportov na konferentsii po estestvoznaniiu) By the Editor (On Makat) Vopros filosoficheskikh nauk, 1959, Vol. 68, No. 4, pp 717-727 (Moscow)
PURPOSE:
ABSTRACT: The above conference took place at Moscow in October 1958. It was attended by more than 600 scientists, among them 10 Academicians and 50 Corresponding Members, as well as 400 delegates from Poland, Hungary, East Germany, and Czechoslovakia. The following lectures were delivered at the conference and listed below: 1. H. L. (on Lenin's materialism and Dialectics); 2. Academician A. G. Ushinsky (On the relationship between philosophy and biology); 3. Academician N. A. Bogolyubov (On the relationship between mechanics and mathematics); 4. Academician V. A. Fok (On the relationship of the forms of motion of matter to physics); 5. Academician V. A. Fok (On the relationship of quantum mechanics - already published in Soviet fizika chisl., 1957, Vol. 62, No. 4); Corresponding Member A. S. Ul'yanov (On the relationship of materialism and dialectics); 6. N. P. Aleksandrov (On the Philosophical Content of and the

Significance of the Theory of Relativity); Academician S. I. Shchegolev (Some in the Historical Problem of Cosmogony); Academician Yu. A. Shohov and Academician A. A. Tsvetkov (On the relationship between philosophy and mathematics); Corresponding Member A. M. Tikhonov (On the relationship between philosophy and natural science); Corresponding Member A. M. Vinogradov and Academician V. A. Efimov (On the part Played by Physics and Chemistry in the Solution of Philosophical Problems); Academician A. I. Oparin (On the Problem of the Origin of Life in the Light of the Present State of Modern Natural Sciences); and finally Corresponding Member A. I. M. Grishashvili (On the Theory of Particles and the Modern Philosophy of Nature). The book consists of 20 lectures. In addition to the lectures on the relationship of philosophy to other sciences, the following topics are covered: 1. The relationship of philosophy to mathematics (as represented by Corresponding Member A. S. Ul'yanov); 2. The relationship of philosophy to mechanics (as represented by Academician V. A. Fok); 3. The relationship of philosophy to biology (as represented by Academician N. A. Bogolyubov); and 4. The relationship of philosophy to mathematics (as represented by Academician A. M. Vinogradov). A resolution passed by the All-Union Conference on philosophical problems of modern natural science is given under the title "On the Tasks of Dealing with Philosophical Problems of Natural Sciences".

Card 1/3

Significance of all new materialistic trends in the sense of the theory of Marx and Lenin and of dialectical materialism for adaptation of ideas to the conditions of the 20th Party Congress; competition of institutions, coordination of research work, as well as some problems of organization. In conclusion, a brief analysis of the main directions in which the leading schools of philosophy work is given, in which the leading schools are mentioned.

Card 2/3

LISOVSKAYA, Nina Petrovna; LIVANOVA, Natal'ya Borisovna; ENGEL'GARDT,
V.A., akademik, otv.red.; LINEVICH, L.I., red.izd-va; DOROZHINA,
I.N., tekhn.red.

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1960. 110 p. (MIRA 13:7)
(Phosphoproteins)

ENGEL'GARDT, Vladimir Aleksandrovich, akademik

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Ja '60. (MIRE.13s4)
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Some problems of the modern biochemistry. Analele chimie 15 no.1:
137-165 Ja/Mr '60.
(Biochemistry)

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Three hundredth anniversary of the Royal Society in London. Vest. AM
SSSR 30 no.12:72-77 D '60. (MIRA 13:12)
(England--Scientific societies)

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BAYEV, A.A.[translator]; VENKSTERN, T.V.[translator];
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Z.D., tekhn. red.; REZOUKHOVA, A.G., tekhn. red.

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ENGEL'GAPDT, V., A.
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Life, intelligence, universe. Vest. Vozd. Pl. no.4:57-59 Ap '61.
(MIRA 14:7)

1. Direktor Instituta radioatsionnoy i fiziko-khimicheskoy biologii
AN SSSR.
(SPACE MEDICINE)

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Chemical aspects of the science of life. Zhur. VKHO 6 no.3:244-
253 '61. (MIRA 14:6)
(Biochemistry)

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New stage in the drive of Soviet science. Vest. AN SSSR
31 no.8:24-27 Ag '61. (MIRA 14:8)
(Biological research)

ENGEL'GARDT, V.A., akademik

The road to a discovery. Znan.sila 36 no.11:30-31 N '61.
(MIRA 14:11)
(MUSCLES) (RESEARCH)

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TATARSKAYA, R.I. Prinimali uchastiye: MALKOVA, M.G.; KOSAREVA, Ye.A.; SISAKIAN, N.M., akademik, glav. red.; ENGEL'GARD, V.A., zka-demik, red. toma; VETROVA, I.B., red.; POLYAKOVA, T.V., tekhn. red.

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Keys to the mysteries of life. IUn.tekh. 6 no.4:50-53 Ap '62.
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Nauka i zhizn' 20 no.4:9 Ap '62. (MIRA 15:7)
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Chemistry of life. Nauka i zhizn' 29 no.4:15-19 Ap '62.
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1. Direktor Instituta radiatsionnoy i fiziko-khimicheskoy biologii
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29-36 Je '62. (MIRA 15:6)
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"Biological Structure and Function at the Molecular Level."
Vol. I of Proceedings of the Fifth International Congress of
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~~ENGELGARDT~~, V.A., akademik, glav. red.; ALIKHANYAN, A.I.,
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(MIRA 17:9)

1. Institut atomnoy energii imeni I.V.Kurchatova (for
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ningradskogo gosudarstvennogo universiteta (for Zakharov,
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biologii AN SSSR (for Karasevich).

YAKOVLEV, V.A.; ENGEL'GARDT, V.A., akademik, glav. red.; DEBORIN,
G.A., zam. glav. red.; BRAUNSHTEYN, A.Ye., akademik, red.
POZNANSKAYA, A.A., red.

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GURVICH, A.Ye.; ENGEL'GARDT, V.A., akademik, glav. red.; DEBORIN, G.A., zam. glav. red.; ZIL'BER, L.A., prof., red.; BUZNIKOV, G.A., red.

[Virology and immunology; problems of general virology, structure and biosynthesis of antibodies] Virusologija i immunologija; problemy obshchei virusologii, struktura i biosintez antitel. Moskva, Nauka, 1964. 274 p.
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BLOKHIN, N.N., red.; BLOKHINTSEV, D.I., red.; GNEDENKO,
B.V., akademik, red.; ZAYCHIKOV, V.N., red.; KELDYSH, M.V.,
akademik, red.; KIRILLIN, V.A., akademik, red.; KORTU'NOV,
V.V., red.; MONIN, Andrey Sergeyevich, prof., doktor fiz.-
matem. nauk, red. (1921); NESMEYANOV, A.N., akademik, red.;
PARIN, V.V., red.; REBINER, P.A., akademik, red.; SEMENOV,
N.N., akademik, red.; FOK, V.A., akademik, red.; FRANTSOV,
G.P., akademik, red.; ENGEL'GARDT, Y.A., akademik, red.;
KREMNEVA, G., red.; BALASHOVA, A., red.; BERG, A.I., akademik, red.

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(MIRA 18:4)

GEORGIYEV, G.P., doktor biol. nauk; KISELEV, L.L., kand. biol. nauk; KNUNIANTS, I.L., akademik; ENGEL'GARDT, V.A., akademik; CHERNOV, A.G.; NIKOLAYEV, V.R., red.

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pogloshcheniya minornykh osnovanii, ikh nukleozidov, nukleoti-
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"APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041212

ENCL: GARET, V.A., akademik

Fundamental principle of scientific creativeness. Priroda 54
no.2855-56 F '65. (MIRA 18:10)

APPROVED FOR RELEASE: Thursday, July 27, 2000

CIA-RDP86-00513R00041212C

ENGEL'GARDT, V.A. akademik

Study of the phenomena of life on lifeless objects. Priroda 54 no.5:
17-19 My '65. (MIRA 18:5)

FROLOVA, L.Yu.; KISELEV, L.L.; ENGEL'GARDT, V.A., akademik

Role of anticodons of transfer RNA in the interaction with
aminoacyl RNA synthetases. Dokl. AN SSSR 164 no.1:212-
215 S '65. (MIRA 18:9)

1. Institut molekulyarnoy biologii AN SSSR.

ACC NR: AP6027739

SOURCE CODE: UR/0020/66/169/004/0965/0966

AUTHOR: Ulanov, B. P.; Li'yashenko, B. N.; Tashpulatov, R. Yu.; Engel'gardt, V. A.
(Academician)

ORG: Institute of Physical Chemistry, AN SSSR (Institut khimicheskoy fiziki AN SSSR);
Institute of Epidemiology and Microbiology im. N. F. Gamaleya, AMN SSSR (Institut
epidemiologii i mikrobiologii AMN SSSR)

TITLE: Electron micrographic studies of phage 1F7 DNA

SOURCE: AN SSSR. Doklady, v. 169, no. 4, 1966, 965-966

TOPIC TAGS: electron microscope, bacteriophage, DNA, molecular structure

ABSTRACT:

Sedimentation analysis and studies of fragmented phage DNA reveal the DNA of phage 1F7 to be a closed circular polynucleic chain with a molecular weight between $1.6-1.7 \times 10^6$ units, with single-stranded DNA. The authors are convinced that circular stranded DNA is not an artifact and present preliminary data to support their view. [WA-50; CBE No. 11]

SUB CODE: 06 / SUBM DATE: 16Nov65 / ORIG REF: 002 / QTH REF: 007
Card 1/1

UDC: 576.858.579

ZINGER, Ye.M.; ENGELGARDT, V.V.; YABLONSKIY, O.A. (deceased);
AVSYUK, G.A., otv. red.; OGANOVSKIY, P.N., red.

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Moskva, (Its Materialy gliatsiologicheskikh issledovanii)
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No.2. [Field observations] Marshrutnye nabliudeniia. 1962.
103 p.
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1. Akademiya nauk SSSR. Institut geografii.
(Novaya Zemlya--Snow)

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Distr: 4E2c(j)/4E3d

✓ Preparation of low molecular weight hydrocarbons for
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Polymer '65, 132-8 (1969).—Lower paraffins and olefins
(sufficiently pure for adsorption and catalytic purposes)
were prepd. from alcs. and were completely free of con-
tamination. The alcs. were dehydrated on active Al₂O₃
(EtOH at 360°, iso-PrOH at 320°, BuOH at 360°, iso-BuOH
at 350°, and tert-BuOH at 310°). The olefins formed were
then hydrogenated at 65°, using Cu catalysts contg. 0.6%
Ni and 4.3% Cr₂O₃, and Pt catalysts (0.5 to 2%) on Al₂O₃.
Rose Mittlemann

1
5
1-BW(Bu)
1-jaB(NB)

2

dw

ENGELHARDT, Jozsef (Budapest)

An account of my study trip to Rumania. Kem tud kosz MTA 15 no.3:
367-368 '61.

1. Magyar Tudomanyos Akademia Kozponti Kemial Kutato Intezete,
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(Hungary) Chemistry
(Rumania) Chemical engineering

TRAVEL PUNCHED

KALLO, Denes; ENGELHARDT, Jozsef; PRESZLER, Imre

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(LIVER) (FLUORESCENT ANTIBODY TECHNIC)

ENGELHARDT, Pavol, inz.

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ENGELHARDT - W. e. o. g. e. k., S

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(MIRA 18:10)

1. Institut khimicheskoy fiziki AN SSSR.

ENGEL'KE, A.A., dotsent, kand.voyennykh nauk, inzhener-polkovnik
v otstavke

Remarkable examples of ruse and surprise in the military art
of A.V. Suvarov and M.I. Kutuzov in the light of Soviet
military science. Sbor.dokl.Voen.ist.sek. no.3:137-164
'60. (MIRA 15:9)

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OREELIANTS, S.A., doktor tekhn.nauk, prof.; ENGEL'KE, V.A., inzh.;
DRAGISHEVICH-NIKSHICH, S.V.; KOSTYLEV, G.I.

Distribution of the center lines of nonstop train meet and passing
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The authors generalize the notion of compact spaces and the Stone-Cech compactification of completely regular spaces by replacing the unit interval with an arbitrary topological space E . That is, X is E -compact if there is no space Y containing X as a dense subset such that every continuous E -valued function on X can be extended to Y . Then, given a space (which has a property similar to complete regularity) there exists an E -compactification. Unfortunately, lemma 1 on page 431 is false as stated. Hence, example (iv) remains in doubt. Note also that the proof in section 4 depends on example (iv).
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3

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(Aggregates) (Topology)

ENGELKING, R. ✓

SURNAME (in caps); Given Names

Country: Poland

Academic Degrees: Not stated

Mathematical Institute (Instytut Matematyczny)

Affiliation: Polish Academy of Sciences (Polska Akademja Nauk)

Source: Warsaw, Bulletin de l'Académie Polonaise des Sciences,
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